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EXAMINER

QIN, YIXING

ART UNIT PAPER NUMBER

2622

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/696,619

Applicant(s)

MILLER ET AL

Examiner

Yixing Qin

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-9, 11-25 and 27-31 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-25 and 27-31 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 29 October 2003.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Claim Objections***

Claim 11 is objected to because of the following informalities: The amendment of claim 11 was impossible since there is a typographical error in claim 11. The examiner assumes that claim 11 depends on claim 1, now, since claim 10 has been canceled. Appropriate correction is required.

### ***Response to Amendment***

In response to applicant's amendment received 1/10/05, all requested changes have been entered, with the exception of claim 11, as explained above.

### ***Response to Arguments***

Applicant's arguments, with respect to the rejection(s) of claim(s) 1-31 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Ramachandran et al (U.S. Patent No. 6,457,640).

The examiner agrees that the previous references did not disclose a monitoring logic for the purposes of calculating licensing fees for the usage of contents in a content database. However, the Ramachandran et al reference discloses an automated teller machine (ATM) capable of charging a license fee for the usage of content in a database. The content can include graphics and photographs in addition to a variety of

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other items (from the abstract of Ramachandran et al). The relevance of Ramachandran et al's invention will be more clearly described in the rejections below.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

I. Claim 1-5, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watkins et al (U.S. Patent No. 5,459,819) in view of Ramachandran et al (U.S. Patent No. 6,457,640).

**1. A kiosk image processing system, comprising:**

- **an image input device configured to receive a physical image and cause a digital image to be generated from the physical image; and**
- Watkins et al discloses an image input device in Fig. 1. In Fig 3 and column 7, lines 42-45, Watkins et al describes the usage by saying that "...the customer may provide one or more photographs which will be scanned by input device 14 which produces a digital signal which is supplied to the CPU 10" The photograph ("physical image") is being digitized after being read by an input device.
- **image processing logic configured to process the digital image into a selected enlarged size; and**

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- Watkins et al discloses in column 8, lines 13-25, that "...the customer generated image may be modified to look like a water colored painting, a poster, line sketch, or otherwise..." Furthermore, Watkins et al discloses that "this is done in accordance with the capabilities of the computer software at the appropriate time..." The software contains the "image processing logic" that is being claimed, and the size of a photograph is enlarged.
- **a content database configured to store one or more content objects that can be selectively combined with the digital image;**
- Watkins et al discloses in column 7, lines 10-19, that "...a customer and/operator will visually examine...a plurality of prestored images provided in the memory of the CPU... The user will select one of the prestored images which will be combined with one or more consumer-generated images that are provided."
- **monitoring logic configured to track usage of the content objects in order to calculate any necessary licensing fees due in connection with the use of one or more content objects in the content database; and**
- The Watkins reference does disclose a memory containing various images for usage, but does not disclose the monitoring or charging of a fee for doing so.
- However, the secondary reference, Ramachandran et al discloses in column 11, lines 15-27 that their invention can charge a licensing fee to be paid with each dispense of digital information (lines 17-18) and that the ATM 10 or other connected computer is used to **monitor** the dispensing of data (lines 19-22).

- Furthermore, Ramachandran et al explains in the abstract that their invention is capable of dispensing graphics/photographs/other digital data (lines 12-13 of the abstract) and has printing and image manipulation capabilities (lines 13-19 of the abstract)
- **a large format print mechanism configured to print the digital image into a hardcopy image having the selected enlarged size including at least one content object.**
- Watkins et al discloses in column 6, lines 26-48, a variety of output devices each individually configured to print different formats. Watkins et al also mentions "...various other devices may be provided for transferring onto various other formats such as...garments, mugs, posters..." The point is that a "large format print mechanism" or the like is needed to print to large objects such as garments and posters. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include use a "large format print mechanism." The motivation is to be able to print onto large mediums.
- Watkins et al discloses in the abstract that their invention prints a merged image, which contains an user image and a prestored image (i.e. **content object**).
- Both the Watkins et al and the Ramachandran et al references are in the art of image manipulation and printing using a system, such as a kiosk. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a monitoring and license fee charging system as disclosed Ramachandran et al in Watkins et al's invention. The motivation would be to

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expand the capabilities of the Watkins et al invention by allowing users to access more digital data to print (i.e. copyrighted data that require a licensing fee).

**2. Claim 2**

**The kiosk of claim 1 where**

- **the large format print mechanism...**
- Watkins et al discloses in column 8, lines 28-30, that "...for examples, if the output is to be a 11X14 color print produced by output devices 32..."

**3. Claim 3**

**The kiosk of claim 2 where**

- **the large format print mechanism includes an ink jet printer.**
- Watkins et al discloses all of the information claimed in claim 2, and further discloses in column 2, lines 9-10, that output devices can be items "...such as a thermal printer, CRT printer, ink jet printer..."

**4. Claim 4**

**The kiosk of claim 1 where**

- **the image processing logic is configured to scale the digital image into a poster size; and**

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- Watkins et al discloses in column 8, lines 13-25, that "...the customer generated image may be modified to look like a water colored painting, a poster, line sketch, or otherwise..."
- **the large format print mechanism is configured to generate the hardcopy image in the poster size.**
- Watkins et al discloses in column 6, lines 26-48, a variety of output devices each individually configured to print different formats. Watkins et al also mention "...various other devices may be provided for transferring onto various other formats such as...garments, mugs, posters..."

## 5. Claim 5

The kiosk of claim 1 where

- **the image input device includes a scanner.**
- Watkins et al discloses in column 2, lines 6-9, that input devices can be items "...such as film scanner, print scanner..."

## 7. Claim 7

The kiosk of claim 1 where

- **the image processing logic further including an image manipulation logic configure to manipulate image characteristics of the digital image.**
- Watkins et al discloses in column 8, lines 17-21, that various attributes of the image can be manipulated, such as the "...sizing and cropping of the image,



changing the color of a item in the image such as hair or eye color, fixing of imperfections in the original image such as streaks, lines, spots or red eye...”

II. Claims 6, 8, 9, and 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watkins et al (U.S. Patent No. 5,459,819), in view of Ramachandran et al (U.S. Patent No. 6,457,640) and further in view of Perine et al (U.S. Patent No. 5,832,193).

6. Claim 6

The kiosk of claim 1 further

- including a network logic configured to communicate to a network and where the image processing logic being configured to communicate the processed digital image to a remote imaging device for imaging.
- Watkins et al reference discloses all of the limitations except for a “network logic” that allows communication with a “remote imaging device for imaging.”

The tertiary reference, Perine et al, discloses in column 4, lines 16-23, that “...image input section 4 has a network 5 with a suitable communication channel such as an EtherNet.RTM. connection enabling image data in the form of image signals or pixels from one or more remote sources to be input to system 2 for processing.”

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- All three references are in the art of printing images through the use of a kiosk.

This will serve as the motivation for the combination of these three references from hereon. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a remote image transmission means.

The motivation is to be able to print images from other locations.

## 8. Claim 8

The kiosk of claim 1 further

- **including an interface configured to communication information between a user and allow the user to select imaging properties to be applied to the digital image.**
- Watkins et al discloses all of the limitations except for the inclusion of "...an interface configured to communication information between a user and allow the user to select imaging properties..."
- The tertiary reference, Perine et al, discloses in column 5, lines 39-46, an UI (user interface) and how it "...interfaces with the operator with printing system 2, enabling the operation to program print jobs and other instructions, and to obtain system operation information, visual document facsimile display, programming information and icons, diagnostic information and pictorial views, etc."
- It would have been obvious to one of ordinary skill in the art at the time of the invention to include an interface where a user can choose to "...select imaging

properties to be applied to the digital image." The motivation is to allow users to be able to customize their pictures before printing.

## 9. Claim 9

### The kiosk of claim 1

- **where the large format print mechanism includes a laser printer.**
- Watkins et al discloses all of the limitations except for the inclusion of "...a laser printer." The tertiary reference, Perine et al, discloses in column 4, line 55, a "...laser type printer..." The motivation is to use laser printers for faster printing.

## 12. Claim 12

### A method for a kiosk image processing system, comprising:

- **receiving an image;**
- Watkins et al discloses an image input device in Fig. 1.
- **generating a digital image of the image;**
- In Fig 3 and column 7, lines 42-47, Watkins et al describes the usage by saying that "...the customer may provide one or more photographs which will be scanned by input device 14 which produces a digital signal which is supplied to the CPU 10. Box 104 illustrates the capturing of the image as is accomplished by the input device 14." The photograph ("physical image") is being digitized after being read by an input device.
- **converting the digital image to a selected large format size; and**

- Further regarding claim 12, Watkins et al discloses in column 8, lines 13-25, that "...the customer generated image may be modified to look like a water colored painting, a poster, line sketch, or otherwise..." Furthermore, Watkins et al discloses that "this is done in accordance with the capabilities of the computer software at the appropriate time..." The software contains the ability to convert the image into a "...selected large format size."
- **applying a content object from a content database to the digital image;**
- Watkins et al discloses in column 7, lines 10-19, that "...a customer and/operator will visually examine...a plurality of prestored images provided in the memory of the CPU...The user will select one of the prestored images which will be combined with one or more consumer-generated images that are provided."
- **storing licensing data relating to the content object applied; and**
- Although the Watkins et al and Perine et al disclose the ideas of image manipulation and printing, neither reference discloses any material in relation to licensing data.
- However, the tertiary reference, Ramachandran et al, discloses in column 10, lines 28-32, that their invention can track how digital information is used and transfer fees to an appropriate licensing authority. The licensing information must be stored in order to be tracked.
- All three references are in the art of image manipulation and printing. This will serve as the motivation for the combination of these three references from hereon. It would have been obvious to one of ordinary skill in the art at the time

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of the invention to include data licensing method. The motivation is to allow copyrighted materials to be legally distributed.

- **on-demand printing of a hardcopy image having the selected large format size.**
- Further regarding claim 12, the Watkins et al reference fails to explicitly teach the concept of on-demand printing. However, the secondary reference Perine et al, teaches in column 1, lines 28-36 that "Electronic printing systems of the type...are particularly well suited for "print-on-demand" applications..." and "(t)his print-on-demand functionality makes electronic printing systems particularly well suited for print shop applications..." The motivation is to enable the customer/operator to have images printed quickly.

### 13. Claim 13

The method of claim 12 where

- the converting includes scaling the digital image.
- The Watkins et al reference fails to explicitly teach the concept of scaling. However, the secondary reference Perine et al, teaches in column 4, lines 49-51, that "...enhancements and changes to the image signals such as filtering, thresholding, screening, cropping, scaling (reduction/enlargement), etc. "

### 14. Claim 14

The method of claim 12 where

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- the on-demand printing is performed by a large format printing mechanism
- Watkins et al discloses in column 6, lines 26-48, a variety of output devices each individually configured to print different formats. Watkins et al also mentions "...various other devices may be provided for transferring onto various other formats such as...garments, mugs, posters..." The point is that a "large format printer" or the like is needed to print to large objects such as garments and posters.

**15. Claim 15**

The method of claim 12 where

- the receiving step includes scanning of a physical image.
- Watkins et al discloses in column 3, lines 1-3, saying that "providing said first generated images by scanning and existing image..."

**16. Claim 16**

The method of claim 12 where

- the receiving step includes reading data of the image from a computer-readable medium.
- Watkins et al discloses in column 6, lines 17-19, that an "...input device, comprises a CD (compact disc) reader for reading digitally stored information on a compact disc.

III. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Watkins et al (U.S. Patent No. 5,459,819), in view of Ramachandran et al (U.S. Patent No. 6,457,640) and further in view of Rosenlund et al (U.S. Patent No. 6,738,155).

**11. Claim 11**

- **the kiosk of claim 1 further including a search engine configured to search the content database.**
- Watkins et al discloses all of the limitations except for the inclusion of "...a search engine configured to search the database." The secondary reference, Rosenlund et al, discloses in column 6, lines 48-54, a "DCM system 130 is utilized to perform content management operations as described herein and in particular with reference to FIG. 11... Content management operations, such as, search, select, place, and save provide for the page design and platemaking of printing and publishing system 100." Furthermore, in column 8, lines 21-23, Rosenlund et al discloses that the "DCM system 130 includes a database server device 132 and a database 134." Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have a search operation that acts on a database. The motivation is to be able to quickly find images that the user is looking for.

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IV. Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watkins et al (U.S. Patent No. 5,459,819) in view of Perine et al (U.S. Patent No. 5,832,193), in view of Rosenlund et al (U.S. Patent No. 6,738,155) and further in view of Ramachandran et al (U.S. Patent No. 6,457,640).

**17. Claim 17**

**The method of claim 12**

- **where the content database is a remote content database.**
- The Watkins et al and Perine et al references disclose all of the limitations except for the inclusion of "a remote content database." The tertiary reference, Rosenlund et al, discloses in column 8, lines 21-23, that the "DCM system 130 includes a database server device 132 and a database 134. The DCM is a part of the central service facility as seen in Fig 1 of Rosenlund et al, and described in column 2, lines 51-64. In particular, Rosenlund et al discloses in column 2, lines 62-64 that "[t]he central service facility provides storage, file processing, remote access, and content management operations."

**18. Claim 18**

**The method of claim 17 further**

- **including searching a content data base for the one or more selected image objects.**



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- The Watkins et al and Perine et al references disclose all of the limitations of claim 18, with the exception of the ability to search a database. The tertiary reference, Rosenlund et al, discloses in column 6, lines 48-54, a S'DCM system 130 is utilized to perform content management operations as described herein and in particular with reference to FIG. II...content management operations, such as, search, select, place, and save provide for the page design and platemaking of printing and publishing system 100. "
- Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have a search operation that acts on a database. The motivation is to be able to quickly find images that the user is looking for.

V. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Watkins et al (U.S. Patent No. 5,459,819) in view of Perine et al (U.S. Patent No. 5,832,193), and in view of Liebenow (U.S. Patent No. 6,480,673) and further in view of Ramachandran et al (U.S. Patent No. 6,457,640).

## 19. Claim 19

The method of claim 12 where

- **the on-demand printing step is triggered by receiving payment from a user for the on-demand printing.**
- The Watkins et al and Perine et al references teaches all the limitations of claim 19, but fails to disclose information regarding payment. The tertiary reference,

Liebenow, discloses in column 4, lines 41-50, that "...the customer may swipe a credit card or debit card through the payment acceptor..." which transfers information to the "...information handling system 102, which determines whether adequate payment has been received for the kiosk 100 to begin printing the photographic data." Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use payment for on demand printing by applying the payment method disclosed by Liebenow to the on demand printing method that Perine et al adds to Watkins et al's invention. The motivation is to enable the customer/operator to have images printed quickly and for the business creating the images to make money.

VI. Claims 20-23, 27- 29 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg (U.S. Patent No. 6,526,158) in view of Ramachandran et al (U.S. Patent No. 6,457,640).

**20. Claim 20**

**A kiosk image processing system comprising:**

- **an image input device configured to receive an image;**
- Regarding claim 20, Goldberg discloses in column 6, lines 48-53, that "the camera 63, (captures) and image of the car 45 and its passenger patron 43. The digital image so captured by camera 63 is then transmitted to the storage

controller 73 through an image transfer wire 65, from which it is then stored in image storage device 71." The camera that Goldberg talks about is a digital camera and can be used to capture images.

- **a user interface configured to received selected options from a user;**
- Goldberg discloses in fig. 2, and column 6, lines 54-67, and column 7, lines 1-6, that there is a kiosk that "...incorporates a monitor 85 on which captured images are displayed for the patron 43 to review." Furthermore, "(i)teraction means are provided to the patron 43, to select and choose images by presentation of the images on a viewing screen 85." Furthermore, the kiosk in Goldberg's reference has buttons label "YES" and "NO" to answer questions.
- **an image processing logic configured to process the image based on the selected options and convert the image to a large format sized image;**
- Goldberg discloses in column 15, lines 56-59, that "manipulating the image to produce special photographic effects such as adjusting contrast or color, cropping, enlarging, etc." is possible. Although Goldberg does not explicitly disclose that there is an option on the kiosk to do so, he does disclose in column 7, lines 1-23, a couple of example questions that might be ask to the customer. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include have an option on the kiosk that asks the customer whether he/she wants to enlarge the image.
- **a content database including one or more image objects that can be selectively combined with the large format sized image;**

- Goldberg discloses in column 15, lines 16-20, that “(t)he storage controller 73 will then place the images and information on the storage device 71 within a database structure that allows for easy search and retrieval of the image and data.” Furthermore, Goldberg discloses in column 15, lines 66-67 and column 16, lines 1-4, that there is a “... combination if those extracted images with appropriate background images in an image combination step 243, possibly in conjunction with some modification of the patron images...” These images could be stored in a database, and the customer’s image could be enlarged as mentioned about.
- **monitoring logic configured to track usage of the image objects in the content database;**
- Although Goldberg discloses a kiosk for image printing and manipulation, he does not explicitly disclose any form of monitoring logic. However, the secondary reference, Ramachandran et al discloses in column 11, lines 15-27 that their invention can charge a licensing fee to be paid with each dispense of digital information (lines 17-18) and that the ATM 10 or other connected computer is used to **monitor** the dispensing of data (lines 19-22).
- Furthermore, Ramachandran et al explains in the abstract that their invention is capable of dispensing graphics/photographs/other digital data (lines 12-13 of the abstract) and has printing and image manipulation capabilities (lines 13-19 of the abstract).

- **payment logic configured to receive an appropriate payment from the user;**  
**and**
- Goldberg discloses in column 16, lines 11-15 that "...the distribution station 77, could include means for accepting money from the client, using one or both of a cash payment slot or credit payment slot..."
- **large format print mechanism configured to print the large format sized image on-demand if the appropriate payment has been received.**
- Goldberg discloses in column 16, lines 39-41 that "...within each distribution station 77 is a printer 137 for the production of printed image for delivery to a patron..." Although Goldberg does not explicitly disclose that the printer is of a "large format" or that the printing is on-demand, it would have been obvious to one of ordinary skill in the art at the time of the invention to print the image when payment was received.
- Goldberg also discloses in column 25, lines 17-19 that "...the image data 195 may be transferred to a fabric printer 201 for placement on a fabric substrate such as a T-shirt 215 or a cap." Although Goldberg does not explicitly disclose that the printer is of a "large format" or that the printing is on-demand, it would have been obvious to one of ordinary skill in the art at the time of the invention to print the image when payment was received. Furthermore, it would have been obvious to simply use a bigger print mechanism depending on the type of image being printed. The motivation is to be able to let the customer get prints of his or her images quickly

- Both the Goldberg and the Ramachandran et al references are in the art of image manipulation and printing using a system, such as a kiosk. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a monitoring system as disclosed Ramachandran et al in Goldberg's invention. The motivation would be to expand the capabilities of the Goldberg's invention by allowing users to access more digital data to print (i.e. copyrighted data that require a licensing fee).

## **21. Claim 21**

**The kiosk image processing system of claim 20 where**

- **the large format print mechanism includes an image forming device means.**
- Goldberg discloses in column 16, lines 55-59 that " the suitability of a particular printer may be determined by the characteristics of the printing output specified, such as ...ceramic mugs, metallic films, fabrics, or posters..." Although Goldberg does not explicitly disclose an "image forming device means," the various printers must have one form or another of a image processing means to form the different types of outputs. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include some "image forming device means."

## **22. Claim 22**

**The kiosk image processing system of claim 20 where**

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- **the large format print mechanism is configured to print images greater than 8 inches by 11 inches.**
- Goldberg discloses in column 16, lines 55-59 that prints can be made on "...ceramic mugs, metallic films, fabrics, or posters..." Although Goldberg does not explicitly say that the printing is larger than 8 X 11, it is obvious to one of ordinary skill in the art that a poster is a relatively large format, and would be larger than 8 X 11. The motivation is to be able to let the customer get larger prints to display.

### **23. Claim 23**

**The kiosk image processing system of claim 20 where**

- **the large format print mechanism is configured to print images that are at least 11 inches by 17 inches.**
- Regarding claim 23, Goldberg discloses in column 16, lines 55-59 that prints can be made on "...ceramic mugs, metallic films, fabrics, or posters..." Although Goldberg does not explicitly say that the printing is larger than 11 X 17, it is obvious to one of ordinary skill in the art that a poster is a relatively large format, and would be larger than 11 X 17. The motivation is to be able to let the customer get larger prints to display.

### **27. Claim 27**

**The kiosk image processing system of claim 20 where**

- **the image processing logic further includes an image manipulation logic configured to manipulate and change image characteristics of the image based on the selected options.**
- Goldberg discloses in column 15, lines 56-59, that the patron can perform actions such as "...manipulating the image to produce special photographic effects such as adjusting contrast or color, cropping, enlarging, etc..."

**28. Claim 28**

**The kiosk image processing system of claim 20 further**

- **including a search engine configured to search the content database.**
- Regarding claim 28, Goldberg discloses in column 15, lines 16-19, that the "...storage controller 73 will then place the images and information on the storage device 71 within a database structure that allows for easy search and retrieval of the image."

**29. Claim 29**

**The kiosk image processing system of claim 20 where**

- **the image processing logic includes means for processing the image.**
- Regarding claim 29, Goldberg discloses in column 15, lines 53-59, that "(at) the distribution station 77," patron can perform actions such as "...manipulating the image to produce special photographic effects such as adjusting contrast or color, cropping, enlarging, etc..."



**31. Claim 31**

**The image processing system of claim 20 where**

- **the content database is remotely maintained and accessible by network communication.**
- Regarding claim 31, Goldberg discloses in fig 2. and column 6, lines 50-54, that the "... (t)he digital image captured by the digital camera is then transmitted to the storage controller 73 through an image transfer wire 65, from which it is then stored in image storage device 71." Goldberg also discloses in fig. 2 and column 6, lines 59-61 that "images are to be retrieved from the image storage device 71 through distribution cable 81." Furthermore, Goldberg discloses that there is a database structure in the storage device (see claim 28 rejection above).

**VII.** Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg (U.S. Patent No. 6,526,158) in view of Ramachandran et al (U.S. Patent No. 6,457,640) and further in view of Nardoizzi et al (U.S. Patent No. 6,636,837).

**24. Claim 24**

- **The kiosk image processing system of claim 20 where the monitoring logic is further configured to track usage of the kiosk image processing system and store usage data.**

- The Goldberg and Ramachandran et al references fail to explicitly disclose the above limitation. However, the tertiary reference, Nardozzi et al discloses in column 10, lines 44-46, that his invention "...provides a method to record every consumer order as it is placed through the kiosk."
- All three references are in the art of using kiosk for printing purposes. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a store usage data monitoring logic as disclosed by Nardozzi et al. The motivation would be to have statistics for use to improve sales in the future.

## **25. Claim 25**

**The kiosk image processing system of claim 24 where**

- **the usage data includes usage statistics.**
- The Goldberg and Ramachadran et al references fail to explicitly disclose the above limitation. ,As mentioned above, the secondary reference Nardozzi et al discloses the use of a method of recording consumer data.
- Furthermore, the secondary reference Nardozzi et al discloses in column 10, lines 55-57, that his invention "...during the day at various times...the computer 39 at the photofinishing lab can poll all of the computers 14 to determine what orders have been placed that day. "

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- Furthermore, Nardozzi et al discloses in column 11, lines 16-18, that the "...computer 39 also maintains a record of what is being sold..." so that "...consumer purchases and trends can be monitored in detail."
- See claim 24 above for the motivation.

**VIII.** Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg (U.S. Patent No, 6,526,158) in view of Ramachandran et al (U.S. Patent No. 6,457,640 and further in view of Rosenlund et al (U.S. Patent No. 6,738,155).

**30. Claim 30**

**The kiosk image processing system of claim 20 where**

- **the large format print mechanism includes on of:**
  - **an ink jet printing mechanism and a toner based printing mechanism configured to print the large format sized image.**
- The Goldberg and Ramachadran et al references fail to explicitly disclose the above limitation. However, the secondary reference Rosenlund et al discloses in column 9, lines 41-43, the concepts of "...inkjet plotting..." and "...black and white laser printing..." Although Rosenlund et al does not explicitly disclose that this is a "large format printer" that contains these mechanisms, it would have been obvious to one of ordinary skill in the art at the time of the invention to

simply apply these techniques to a large format printer. The motivation is to be able to print different types of large format prints more efficiently.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yixing Qin whose telephone number is (571)272-7381. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on (571)272-7402. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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YQ



YIXING QIN  
EXAMINER